

## Infiniti Expertise



- ❖ Spider Glazing
- ❖ Structural Glazing
- ❖ Patch Fittings
- ❖ ACP Cladding
- ❖ Glass Railings
- ❖ Lacquered Glass
- ❖ UPVC Windows
- ❖ Shower Cubicles
- ❖ Canopy Fittings

### Our Esteemed Clients:

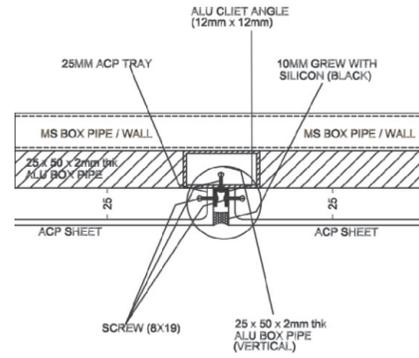


**Infiniti Glass**  
*Possibilities are Infinite*

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*Possibilities are Infinite*



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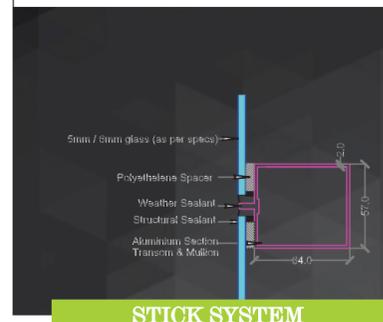


### ALUMINUM COMPOSITE PANEL (ACP)

- Aluminum Composite panel is composed of non combustible polyethylene core laminated and sandwiched between two fine aluminum sheets. The external aluminum surface is coated with superior quality PVDF resin to ensure durability, stability, corrosion and weather resistance. The inside aluminum surface is polyester coated ensuring smooth surface.
- Thickness: ACP Sheets are available in 3mm and 4mm thickness. Considering the whether conditions / Load Bearing conditions and customer choice, the thickness of the sheets are considered.

### General Construction :

- Aluminum Composite panel cladding is done, using 2" x 1" plain rectangular tube, ACP Sheet, 3M Adhesive tape, weathering sealant and quality hardware's. OR all the ACP sheets are initially fabricated into Trays before erection to the aluminum frame structure.
- Frame work is made, matching to the elevation and rigidly fixed to the building by means of expansion bolts. The ACP sheet is fixed to the frame with 3M tape. All the joints of the ACP sheet is finished with weather proofing DOWCORNING 789 sealant.
- Aluminum frame work is made of 2" x 1" rectangular tube manufactured as per IS 63400. Make : JINDAL or equivalent.

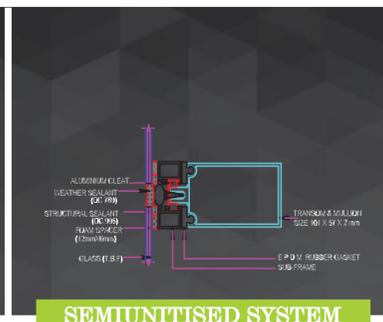


STICK SYSTEM

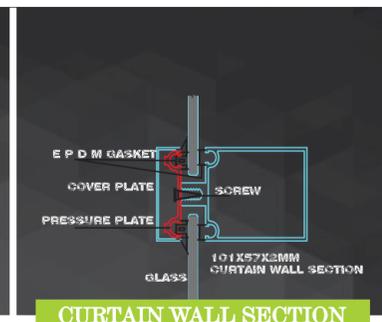


### ALUMINUM

The frame work is made of rectangular aluminum tube of size 64mm x 58mm and electro colored to 15 microns. The Aluminum extrusion is manufactured as per IS 63400, and the glass is pasted to it using the structural sealant. And a Sub Frame of 26.5 x 20.5 x 1.8mm is fabricated and the above mentioned glass makes are pasted to the sections and duly cured for a minimum of a week's time using structural sealants ensuring the fool proof bonding of the glass to metal before erecting it to the main Transom and Mullion in case of a Semi- Unitized Glazing Patterns.



SEMIUNITISED SYSTEM



CURTAIN WALL SECTION

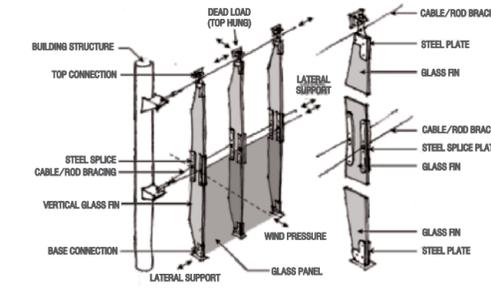
### STICK GLAZING , SEMI-UNITIZED GLAZING AND CURTAIN WALL GLAZING

Reflective / Tinted glass from SAINT GOBAIN / ASSAI / MODI is specially made by a process known as on-line pyrolytic coating, also known as hard coating which involves fusing precious metallic oxides on the surface of the float glass at high temperatures while glass is under formation. This coating gives mirror like appearance which is aesthetically pleasing and provides superior functional benefits like solar control and glare reduction. It gives Thermal comfort and visual comfort.



### GLAZING SEALANT

Dow CORNING 995 Silicone Structural glazing sealant is used for fixing the glass with aluminum frame. This Sealant is Odorless, non corrosive and highly resisting to ultra violet radiation, heat and humidity.



### SPIDER GLAZING

SPIDERGLAZING is a complete system for bolted glass structures. The complete package includes the glass, fixings, fasteners and SPIDER brackets for connection to the framework or structure.

The high-grade stainless steel fixings are designed to absorb all static and dynamic loads (i.e. the dead weight of the glass, wind loading, snow loads and differential expansion due to temperature difference) and distribute them to the support structure.

Intermediate elements which are inserted between the bolt and the glass ensure uniform transmission of stresses whilst avoiding local stresses & a watertight facade.



### Design Principles:

- The size of the supporting structure must be adequate to take the weight of the glass and the wind load conditions so it does not put any strain on the glass itself.
- The glass needs to withstand the wind loads and imposed dead loads.
- There must be a gap between the two panes of glass to avoid transmitting stresses and to allow space for the mastie weather seal.
- Various types of support structures are possible.

